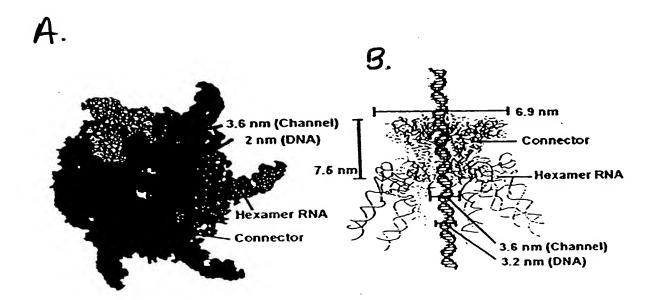
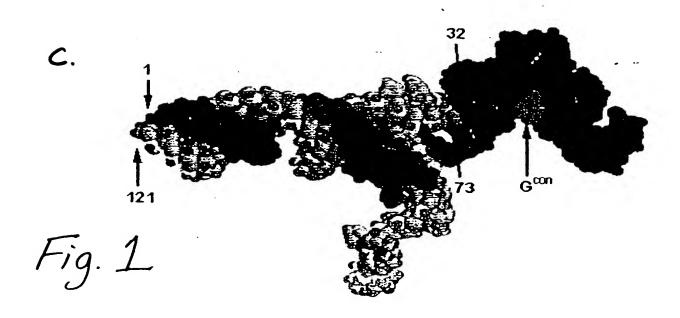
Docket: 290.00340120 Sheet 1 of 20





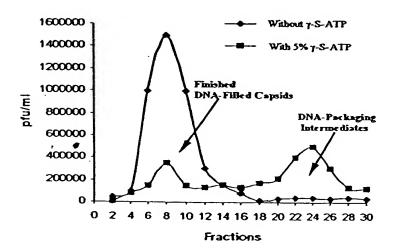
Title: MOLECULAR ROTARY NANOMOTOR AND METHODS OF USE

Applicant(s): Pelxuan GUO Serial No.: Unassigned Express Mail No.: EV073737366US

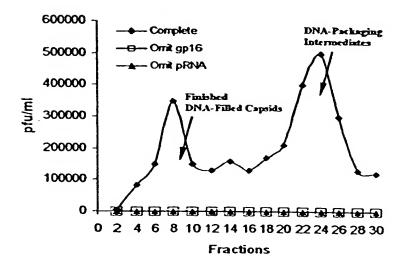
Filed: Herewith

Docket: 290.00340120

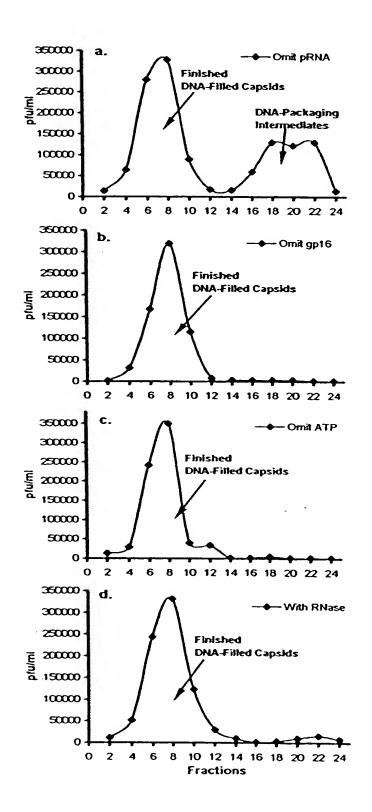
Sheet 2 of 20



Docket: 290.00340120 Sheet 3 of 20



Docket: 290.00340120 Sheet 4 of 20



Docket: 290.00340120 Sheet 5 of 20

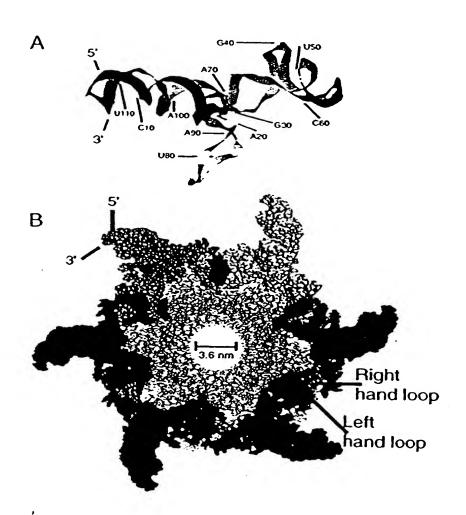
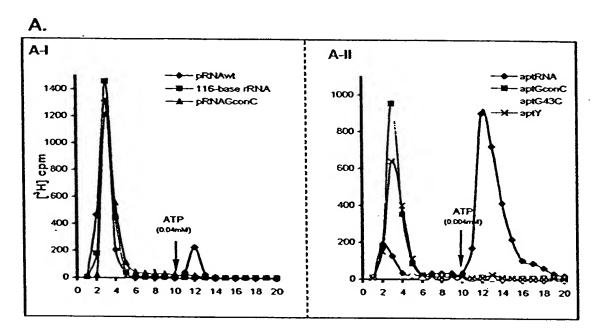


Fig. 5

Docket: 290.00340120 Sheet 6 of 20

- - -



B.

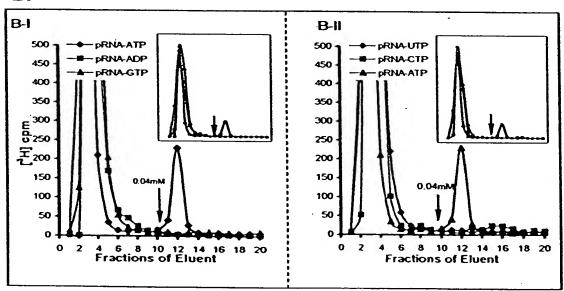
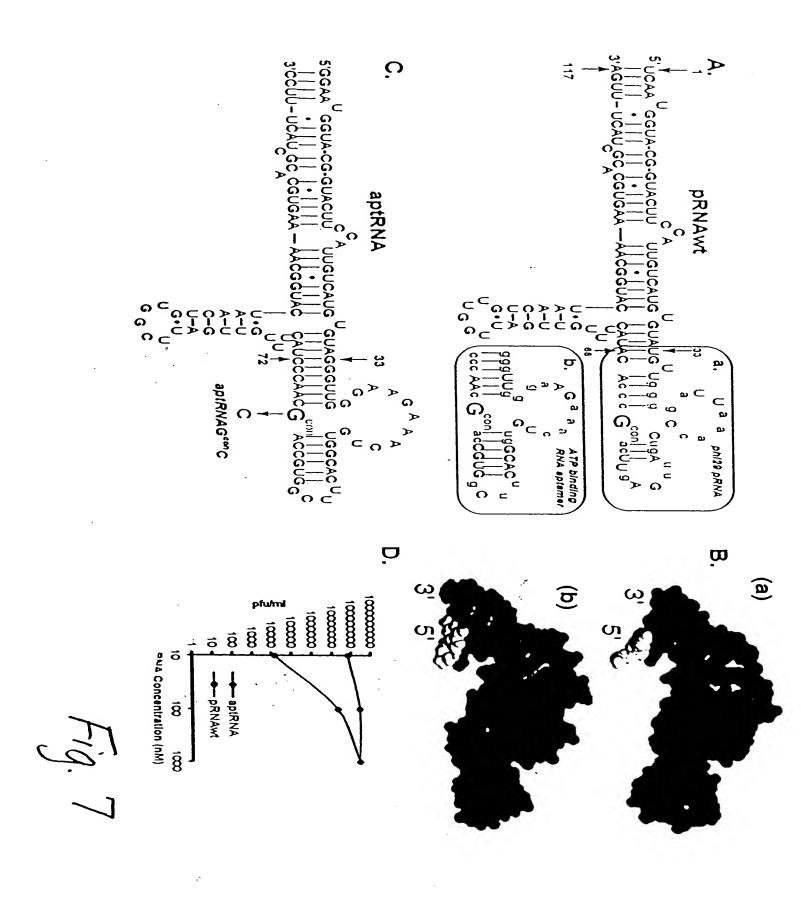


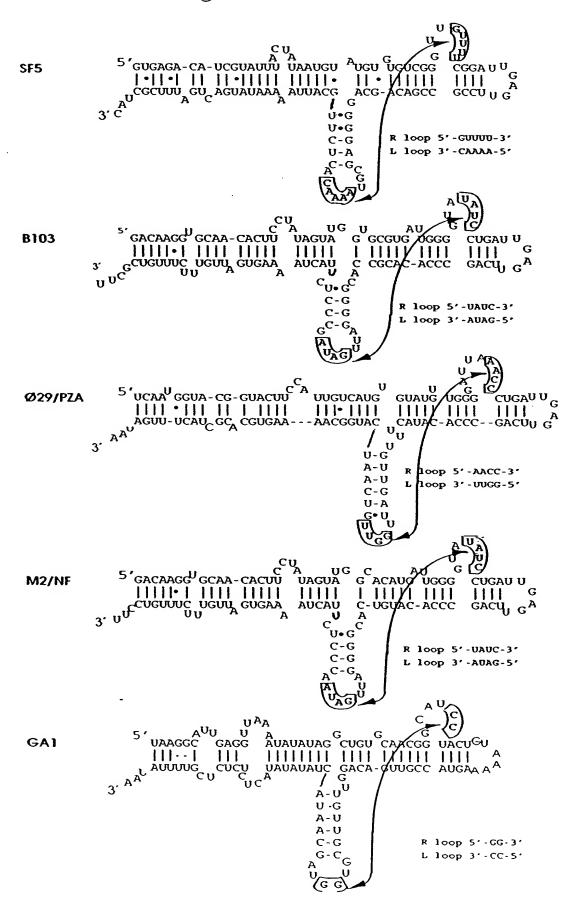
Fig. 6

Docket: 290.00340120 Sheet 7 of 20



Docket: 290.00340120 Sheet 8 of 20

Fig. 7E



Docket: 290.00340120 Sheet 9 of 20

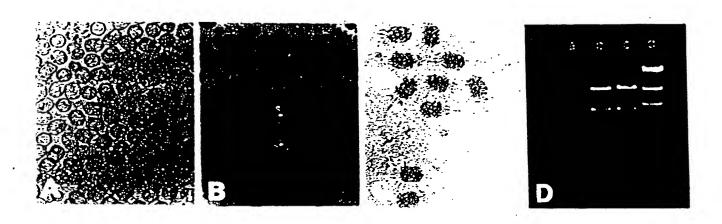
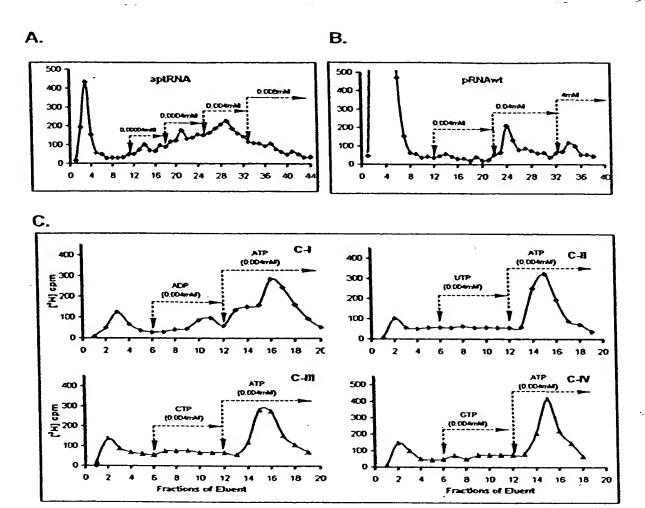
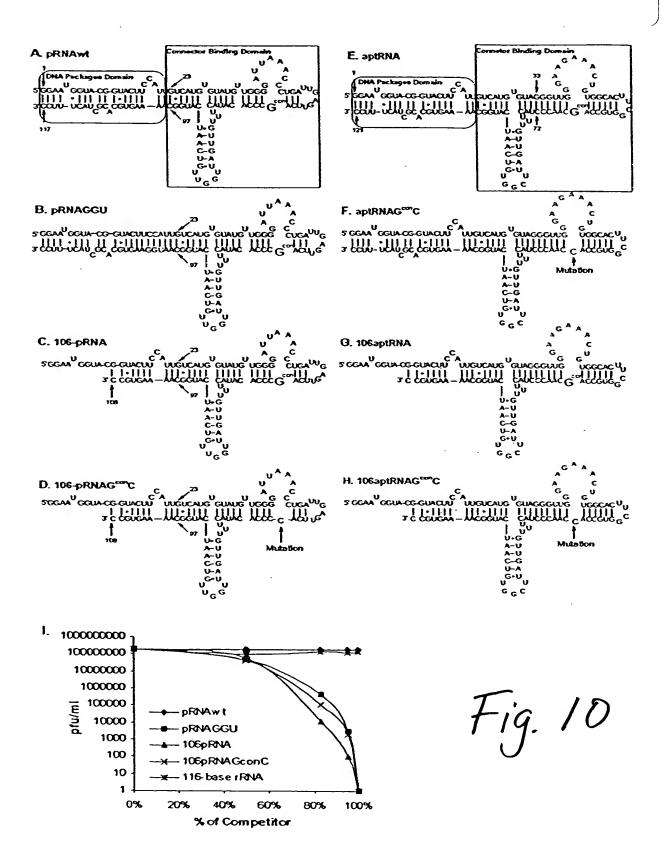


Fig. 8

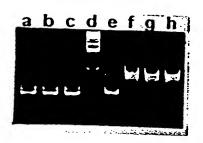
Docket: 290.00340120 Sheet 10 of 20



Docket: 290.00340120 Sheet 11 of 20



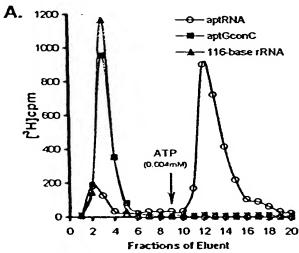
Docket: 290.00340120 Sheet 12 of 20

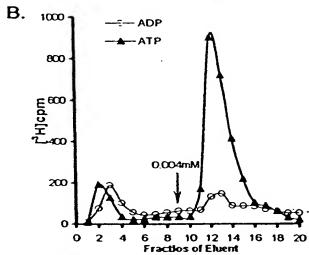


Docket: 290.00340120 Sheet 13 of 20

Inorganic —→ **Phosphate**

ATP →								
	1	2	3	4	5	6	7	8
pRNA	_	-	-	_	+	_	-	+
DNA-gp3	-	+	-	-	-	+	+	+
gp16	-		+	-	-	-	+	+
Procapsid	_	-	-	+	-	+	-	+
[γ- ³² P]ATP	+	+	+	+	+	+	+	+





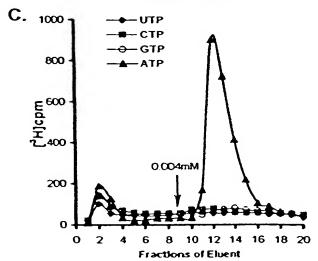


Fig. 13

Docket: 290.00340120 Sheet 15 of 20

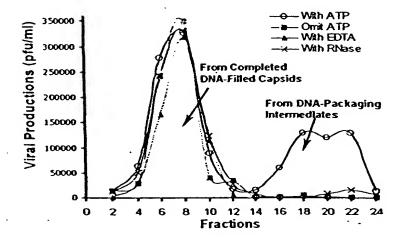
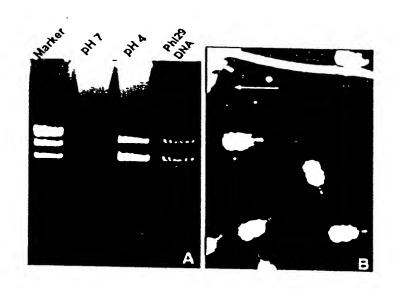
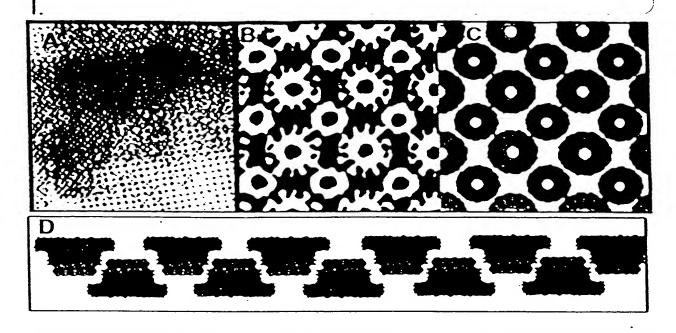


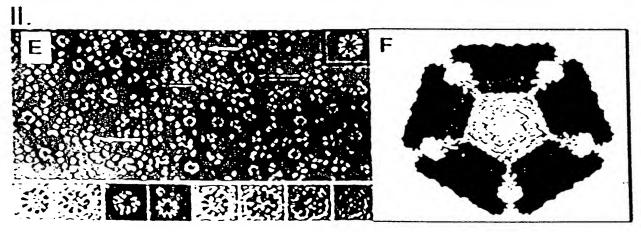
Fig. 14

Docket: 290.00340120 Sheet 16 of 20



Docket: 290.00340120 Sheet 17 of 20





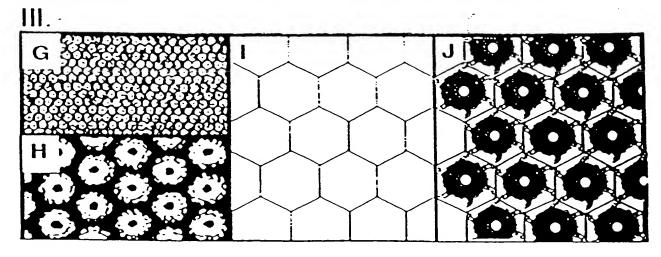
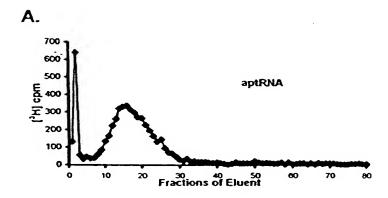
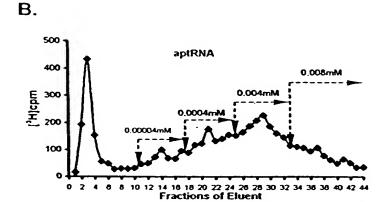


Fig. 16

Docket: 290.00340120 Sheet 18 of 20





Docket: 290.00340120 Sheet 19 of 20

